5 '

FIG. 1A

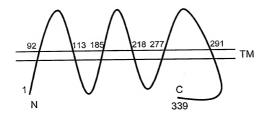
	ava	λст	11	COT	CAA	20 GCT	AAG	GCG	29 AAG	AGT	GGG	TGG	CTG	AAG	47 CCA	TAC 1	rat T	TT
														-				
			6	5		74	1		83			9:	2		101		maa .	110
	ATA	GAA	TTA													CTT		
				M	E	s	R	K	D	I	T	N	Q	E	Ε	L	M	ĸ
			119			128			137			146			155			164
														1		GAC		
	М	K	P	R	R	N	L	E	E	D	D	Y	L	H)	K	D	T	G
			177			182			191			200			209			218
																ACA		CAT
	E	T	s	М	L	ĸ	R	P	V	L	L	Н	L	Н	Q	т	A	н
			227	,		236			245			254			263			272
	GCT	GAT	GAZ	A TT	r GAC	TGC	CCI	TCA	GAA	CTT	CAG	CAC	ACA	CAG	GAA	CTC	TTT	CCA
	A	D	Е	F	D	C	P	s	E	L	Q	Н	T	Q	E	L	F	P
			28:	ı		290)		299			308			317			326
																ACT		
x	۰	W	н	L	P	I	K	I	A_	_A_	I	_I	A_	S	_L	_T_	F	L
,			33	5		344			353		mma	362	ארטיי	י שמר	371	CAA	CAA	380 TAT
	Y	Т	L	L	R	Е	V	I	Н	P	L	A	т	s	Н	Q	Q	Y
			38	9		39	8	- am	407	, ,,,,	7 331	41	5 7 mm	. cci	425	GTT		434 ATC
	F	Y	К	. 1	P	I	L	V	1/I	N	к	v	L	P		v		<u>I</u>
			44	3		45	2	a am	46	L	יים מיים	47	0 A GC	4 GC1	479 A ATT	e GTC	CAA	488 CTT
	T	L	I	1	I	v	Y	L	P	G	v	I	A	А		v		
			49	97		50	6	a 22	51	5 T CC	A (7A	52 T TC	4 G TT	ימט מ	53: T AA	3 3 TGC	ATG	542 TTA
	Н	N		3 5	r F	Y	K	K	F	P	Н	W	ь	D	K	W	М	п
			55	51		56	0 C CT	m	56	9 תיידית	יר ידיי	57 T TT	8 T GC	ጥ ርሞ	58 A CT	7 G CAT		596 ATT
															÷			
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			_	, ,		٠.	1.4		62	3		67	12	1	64	1		650
	TZ	T A	T C	TG T	CT T	AC CO	CA AC	G A	G CC	A TO	C TA	C A	A TA	C AA	G TT	G CT	A AAC	TGG
			3 _		s	Y 1	P_1	4 1	 R F		3 3	7 1	2 3	K	. I	L		
	-						18,		85									

		659			668			677		~-	686	maa	3 mm	695	a.m	G N M	704
GCA	TAT	CAA	CAG	GTC	CAA	CAA	AAT	AAA	GAA	GAT	GCC	TGG	ATT	GAG	CAT	GAT	
Α.	Y	0	0	V.	0	0	N	к	E	D	Α	W	I	E	H	D	ν
	_	-	-	- ;	-	-											
		713			722						740			749			758
TGG	AGA	ATG	GAG	ATT	TAT	GTG	TCT	CTG	GGA	ATT	GTG	GGA	TTG	GCA	ATA	CTG	GCT
W	R	M	E	T	Y	v	s	L	G			G					A
"	10	**	_		`.												
		767		40.	776						794			803			812
CTG	TTG	GCT			TCT							TCT	TTG	ACA	TGG	AGA	GAA
				T	s							s	ь	т	w	R	Е
									_	-			-				
		821			830			839						857			866
TTT	CAC	TAT										CTT					ATA
	н	У										T.	T.	т.			т.
r	п	1		21-								L					
		875			884			893			902			911			
CAC	GCA	TTG	ATT	TTT	GCC							ATA			TTT	GTA	TGG
																	w
H	A_	L	I	F	_A_	W_	N_	к	293	1	D	I	K	Q	F	٧	W
		929			938			947			956			965			974
TAT	ACA			ACT								CCA					
Y	T	P	P	T	F	M	I	A_		F	L	P			ν	ь.	I
		983			003	27		1001			1010			1019			1028
արդու	222			СТА													AGA
F.	K	S	I	L	F	L	P	C	<u>L</u>	R	K	K	I	L	K	I	R
		1037			1016			1055			1064			1073			1082
CAT	GGT	TGG	GAA	GAC	GTC	ACC	AAA	ATT	AAC	. AAA	ACT	GAG	ATA	TGI	TCC	CAG	TTG
H	G	W	E	D	v	T	K	I	N	K	T	E	I	С	s	Q	Г
		1091			1100			1100	,		1118	,		1127	,		1136
TAG	AA1	TOST	TGT	TTZ													CAA
*	N	Y	C	L	H	T	F	L	F	N	I	D	I	F	Y	H	Q
					115			116	,		1177	2		1101			1190
CAT		1145		י פידיני													AAA
					_					_	_		_				**

AAA AA 3'

FIG. 1B

Extracellular

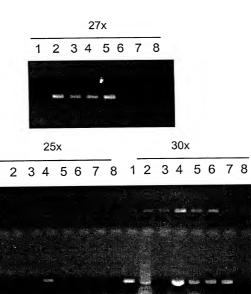


Intracellular

FIG. 1C

Α

В



Panels:

Α

- 1. Brain
- 2. Prostate
- 3, LAPC-4 AD
- 4. LAPC-4 AI
- 5. LAPC-9 AD
- 6. HeLa
- 7. Murine cDNA
- 8. Neg. control

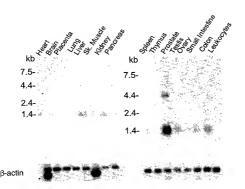
В

- 1. Brain
- 2. Heart
- 3. Kidney
- 4. Liver
- 5. Lung
- 6. Pancreas
- 7. Placenta
- 8. Skeletal Muscle

C

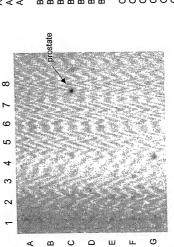
- 1. Colon
- 2. Ovary
- 3. Leukocytes
- 4. Prostate
- 5. Small Intestine
- 6. Spleen
- 7. Testis
- 8. Thymus

FIG. 3A



10010687.120601

FIG. 3B

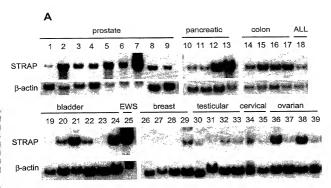


D1 testis D2 ovary D3 pancreas D4 pituitary gland D5 adrenal gland D6 thyroid gland D7 salivary gland	E1 kidney E2 liver E3 small intestine E4 spleen E5 thymus E6 peripheral leukocytes E7 lymph node E8 bone marrow	F1 appendix F2 lung F3 trachea F3 trachea F4 placenta G1 fetal brain G2 fetal heart G3 fetal kidney G4 fetal liver G6 fetal spleen G6 fetal litymus G7 fetal lung	0.5.
1 brain 2 amygdala 3 caudate nucleus 4 cerebellun 5 cerebral oortex 6 frontal lobe 7 hippocampus 8 medulla oblongata	11 occipital lobe 12 putamen 13 substantia nigra 14 temporal lobe 15 thalamus 16 sub-thalamic nucleus 17 spinal cord	11 heart 22 aorta 33 skeletal muscle 33 skeletal muscle 34 colon 55 bladder 56 uterus 77 prostate 28 stomach	

FIG. 4

 $ATACTATTTTATAGAATTA\underline{ATG}GAAAGCAGAAAAGACCATCACAAACCAAGAAGAACTTTGGAAAATGAAGCCTAGG$ $\tt GTGGCACTTGCCAATTAARATAGCTGCTATTATAGCATCTCTGACTTTTCTTTACACTCTTCTGAGGGAAGTAATT$ CACCCCTTAGCAACTTCCCATCAACAATATTTTTATAAAATTCCAATCCTGGTCATCAACAAAGTCTTGCCAATGG $\tt GTATAAGAAGTTTCCACATTGGTTGGATAAGTGGATGTTAACAAGAAAGCAGTTTGGGCTTCTCAGTTTCTTTTTT$ ATCAACAGGTCCAACAAAATAAAGAAGATGCCTGGATTGAGCATGATGTTTGGAGAATGGAGATTTATGTGTCTCT AGAGAATTTCACTATATTCAGGTAAATAATATATAAAATAACCCTAAGAGGTAAATCTTCTTTTTGTGTTTATGAT $\tt CTCTGTTGCCCATGCTGGAGTACAGTGGCACGATCTCGGCTCACTGCAACCTGCGCCTCCTGGGTTCAGGCGATTC$ GAGACAGGGTTTTCCCATGTTGGCCAGGCTGGTCTCGATCTCCTGACCTCAAATGATCCGCCCACCTCGGCCTCCC TGTCACCTGAATTTAGTAATGCCTTTTATGTTACACAACTTAGCACTTTCCAGAAACAAAAACTCTCTCCTTGAAA ${\tt TAATAGAGTTTTTATCTACCAAAGATATGCTAGTGTCTCATTTCAAAGGCTGCTTTTTCCAGCTTACATTTTATAT}$ ACTTACTCACTTGAAGTTTCTAAATATTCTTGTAATTTTAAAACTATCTCAGATTTACTGAGGTTTATCTTCTGGT GGTAGATTATCCATAAGAAGAGTGATGTGCCAGAATCACTCTGGGATCCTTGTCTGACAAGATTCAAAGGACTAAA AGTAACCTAGAAATGTTTCACTTAAAATCTGAGAACTGGTTACACTACAAGTTACCTTGGAGATTCATATATGAAA ${\tt ACGCAAACTTAGCTATTTGATTGTATTCACTGGGACTTAAGAATGCGCCTGAATAATTGTGAGTTCGATTTGTTCT}$ $\tt GGCAGGCTAATGACCATTTCCAGTAAAGTGAATAGAGGTCAGAAGTCGTATAAAAGAGGTGTTGTCAGAACACCGT$ $\tt ATGTTTCATCACATCTCTGGATCTCTCTATTTTGTGCAGACATTGAAAAAAATTGTTCATATTATTTCCATGTTATC$ ${\tt CATTAGTCGCCTTCACAACTGATAAAGATCACTGAAGTCAAATTGATTTTTGCTATAATCTTCAATCTACCTATAT}$ $\tt ATGAGGTAGGATGAGATCTTATTGAACCAATCTTCACCAATTTTGTTTT\underline{TCTTTTGCAGA}GCAAGCTAGGA$ CCTGCCATGCTTGAGGAAGAAGATACTGAAGATTAGACATGGTTGGGAAGACGTCACCAAAATTAACAAAACTGAG ATATGTTCCCAGTTGTAGAATTACTGTTTACACACATTTTTGTTCAATATTGATATATTTTATCACCAACATTTCA

FIG. 5



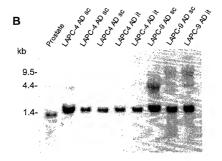


FIG. 6

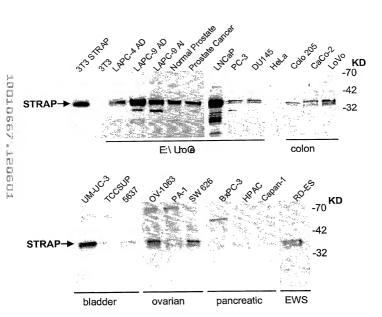
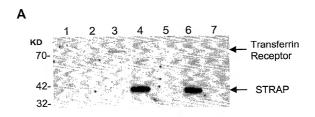


FIG. 7



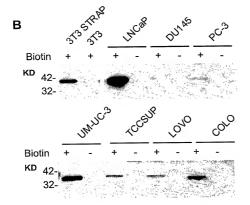


FIG. 8

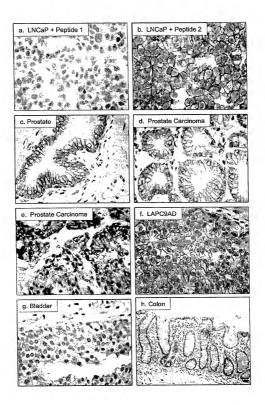


FIG. 9

			10			19			28						46			55
5'	GAC																GTT	
																	Val	
			64			73		m	82			91	~~~	~~~	100		m> m	109
										GCA							TAT	CAA
																	Tyr	Gln
								•			•						-	
			118			127			136	mmm	-	145	maa	mma	154	3.00	maa	163
	CIT									TTT				116	GAA	ACC	TGG	TIM
	Len													Leu	Glu	Thr	Trp	Leu
		-2-	-2-	2		•							-				-	
			172			181			190			199			208			217
																	CAT	
																	His	
		•		•														
	000	mr.c	226	ama	maa	235	aaa	» TO	244		TO	253	202	TAT	262	THE THE	CTC	271
	GCC									AGG								
	Ala	Tyr	Ser	Leu	Cys	Leu	Pro	Met	Arg	Arg	Ser	Glu	Arg	Tyr	Leu	Phe	Leu	Asn
			280			289			298			307			316			325
	ATG	GCT		CAG	CAG			GCA			GAA		TCT	TGG			GAA	
	Met	Ala	Tyr	Gln	Gln	Val	His	Ala	Asn	Ile	Glu	Asn	Ser	Trp	Asn	Glu	Glu	Glu
			334			343			352			361			370			379
	GTT	TGG		ATT	GAA		TAT	ATC			GGC		ATG	AGC			TTA	
	Val	Trp	Arg	Ile	Glu	Met	Tyr	Ile	Ser	Phe	Gly	Ile	Met	Ser	Leu	Gly	Leu	Leu
			388			397			406			415			424			433
	TCC	CTC	CTG	GCA							GTG	AGC	AAT	GCT	TTA	AAC	TGG	AGA
	Ser	Leu	Leu	Ala	Val	Thr	Ser	lle	Pro	ser	Val	ser	Asn	ALA	Leu	Asn	Trp	Arg
			442			451			460			469			478			487
	GAA	TTC	AGT	TTT					CTI	GGA	TAT	GTC	GCI	CTG	CTC	ATA	AGT	ACT
																		m)-
	GLu	Phe	Ser	Pne	TIe	GIn	ser	Thr	Leu	GIY	Tyr	val	ATS	Leu	Leu	116	ser	Thr
			496			505			514									
										CGA								
										3.000								
	Phe	HIS	val	ьeu	тте	TY	GIY	TIL	, гуе	Arg	wrg							

FIG. 10

STRAP-2, AA508880 (NCI_CGAP Pr6)

STRAP-2, 98P4B6 SSH fragment

AI139607 (testis EST)

R80991 (placental EST)

ggrogroggicancogottacgacitggtcaacctggcagtcaagcaggtcttggccanacaagagcaactcttgggtg aaganggaggtctaggcggatgaggatctacctatcctggaagttctggccotcggacagttqccctgctgggcgtaactcagtggcg tgacetaatgccgtcattgcaactcgctaactcggcaggaggtcagcttcgttcagtcctaattgggtttg ggcmtcgtgtcagacaactncaacagctcacctacggtggaccggcacttcgaggagagccgtcaaagttc tacctncctccaccttcacgntcacgctgctggtggcctgcgttcgttcatctggggcaaagccctgtttttaactcactagggctttaactcacctagggctttgttcatccttagggcaaagccctgtttttac

FIG. 11A

STRAP-1 STRAP-2	2 PYRIPLEVINKULPHVSITIELMVILDEVSTRATVQINKURKTEPHHEDMINITERINGET 2 PYRIPLEVINKULPHVAITLELMVILGELMVAAQULYGEKYRREPPHLEVMLQCRKQLG
STRAP-1 STRAP-2	166 LLSFFFAVLHAIYSLSYPMRRSYRYKLLNWAYQQVQONKEDAWIEHDVWRMEIYVSLGIV 62 LLSFFFANVRVAYSLCLPMRRSERYLFLNMAYQQVHANIENSWNEEEVWRIEMYISFGIM ****** * *** **** ** * *** * * * * * *
STRAP-1 STRAP-2	226 GLAILALLAVTSIPSVSDSLTWREFHYIQSKLGIVSLLLGTTHALIFAWNK 122 SLGLLSLLAVTSIPSVSNALNWREFSFIQSTLGYVALLISTFHVLIYGWKR

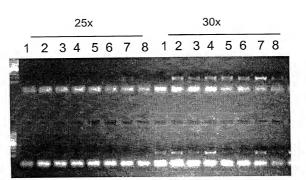
LOGICOS LECOSOL

FIG. 11B

0000	180 76 0	270 166 68 82	
90 ASLIFLYTL	180 ELSFFFAVIALISH ELSFFFAVIVATSH	270 kugipsddarhau hugysaddisyrehuu kugydrollqishiu sugeryaxpustuuu	360
75 76	165 166 KWMLTRKOPG LLES TWLOCKKOPG LLES	# 6666	345 346 339 173 128 128
61 LOHYQELFPQWHLPI KIAALIASLIF	51 PHALIDKWILS PPALETWLQC	255 2 (VSDSLIMKEPHYLQS) (VSNALLAWKEPSFILQS) (VSNALVAWEEPKPVOS) IANSIARKEFSFILOS)	NKTEICSQL
46 60 61 LHQTAHADEFDCPSE LQI	165 150 151 ASP 165 ASP	240 241 ALLAVISIPS WS LSLLAVISIPS WY TYDLGITSLPS WS LSLLAVISIPS WS	330 331 RHG/REDVTKI NK RQG/WERNSKH
45 46 LH LHQTAH		225 226 IGITY GLAIL FOITM SLGIJ LIGITH GFFLIA FIGOTH AFFLIA	315 316 CTRK KILKI STOPN TLIREI
30 31 45 HK DIGETSMLKRPVLLH	121 VSITELALVYI VAITELSIVYI	246 225 226 210 210 210 210 225 225 226 220 240 240 240 240 240 240 240 240 240	VLIJEKSILFLE VLIJEKSILFLE VLVIKFVLIMP RSSWAKALFKLI
15 16 30 QBELWK MKPRANLEEDDYLHK	IPJUVINKA IPJUVINKA	7	286 XTRETEMIAVELEIV YLPAAVUGLIIPCT YLPAAVUGLIIVCT YLEPTETIXTLIUVECV
1 15 16 30 31 45 46 60 61 75 75 99 MESENDITROPELME METEROLISE DESCRIPTION FEDERAL METEROLISE TRANSPERTITE PARTIES.	91 105 106 LREVIHPLATSHQQY FYK	181 SYPMERSYRYKLINW FAY CLIPMERSPRYLEDAN FAY CLEMENSSERYLEDAN FAY CLEMENSSERYLEDAN FAY CLEMENSSERYLEDAN FAY CLEMENSSERYLEDAN FAY CLEMENSSERYLEDAN FAY	271 285 286 IFANNKNIDIKQFVW YIP IXGWKRA VYGGKRFLSPSNIRW YIP TYGWIRAFESSKYKF YIE
STRAP-1 STRAP-2 STRAP-3 STRAP-4	STRAP-1 STRAP-2 STRAP-3 STRAP-4	STRAP-1 STRAP-2 STRAP-3 STRAP-4	STRAP-1 STRAP-2 STRAP-3 STRAP-4

Α

В



Α

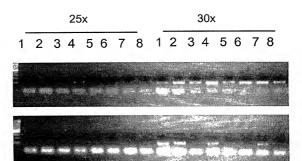
- 1. Brain
- 2. Heart
- 3. Kidney
- 4. Liver
- 5. Lung
- 6. Pancreas
- 7. Placenta
- 8. Skeletal Muscle

В

- 1. Colon
- 2. Ovary 3. Leukocytes
- 4. Prostate
- 5. Small Intestine
- 6. Spleen 7. Testis
- 8. Thymus

Α

В

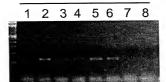


- 1. Brain
- 2. Heart
- 3. Kidnev
- 4. Liver
- 5. Lung
- 6. Pancreas
- 7. Placenta
- 8. Skeletal Muscle

В

- 1. Colon
- 2. Ovary
- 3. Leukocytes
- 4. Prostate
- 5. Small Intestine
- 6. Spleen
- 7. Testis
- 8. Thymus

26x



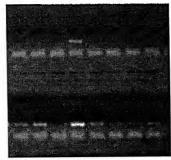
В

Α

1 2 3 4 5 6 7 8

25x

30x

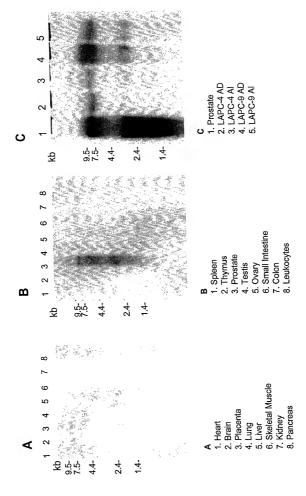


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- 1. Brain
- 2. Prostate
- 3. LAPC-4 AD
- 4. LAPC-4 AI
- 5. LAPC-9 AD
- 6. HeLa
- 7. Murine cDNA
- 8. Neg. control

В

- 1. Colon
- 2. Ovary
- 3. Leukocytes
- 4. Prostate
- 5. Small Intestine
- 6. Spleen
- 7. Testis
- 8. Thymus



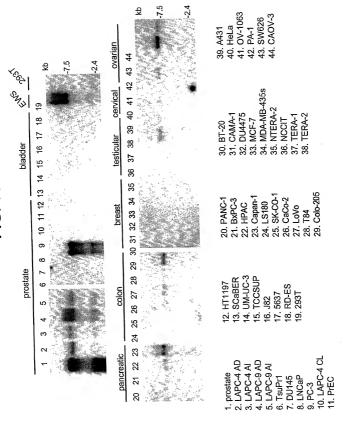


FIG. 17

GDB Compreher

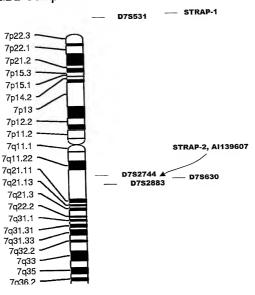


FIG. 18



FIG. 19

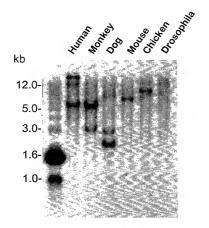
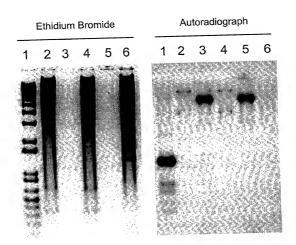


FIG. 20



Lanes

- 1) 1kb ladder
- 2) human female genomic
- 3) 12P11 BAC mus
- 4) human female genomic
- 5) 12P11 BAC mus
- 6) 3T3